## CRF Errors Edited by the STIC Systems Branch

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Revised 09/09/2003



PCT

RAW SEQUENCE LISTING DATE: 11/01/2005
PATENT APPLICATION: US/10/553,661 TIME: 11:57:18

Input Set : A:\PTO.AMC.txt

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3 <110> APPLICANT: Genesis Group Inc., Kenneth Kao, Catherine Popadiuk
 5 <120> TITLE OF INVENTION: Pygopus in Diagnosis and Treatment of Cancer
 7 <130> FILE REFERENCE: 50680-4
9 <140> CURRENT APPLICATION NUMBER: US/10/553,661
9 <141> CURRENT FILING DATE: 2005-10-17
 9 <150> PRIOR APPLICATION NUMBER: US 60/463 309
10 <151> PRIOR FILING DATE: 2003-04-17
12 <150> PRIOR APPLICATION NUMBER: US 60/496 012
13 <151> PRIOR FILING DATE: 2003-08-19
15 <160> NUMBER OF SEQ ID NOS: 28
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36 ccaagggege etecateece egeegetgee getaaceegg gteeceeaet ee atg gee
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37
                                                              Met Ala
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40 gcc teg geg ccg ccc cca ccg gac aag ctg gag gga ggt ggc ggc ccc
41 Ala Ser Ala Pro Pro Pro Pro Asp Lys Leu Glu Gly Gly Gly Pro
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                                                                         274
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58 Pro Met Val Asp His Leu Val Ala Ser Asn Pro Phe Glu Asp Asp Phe
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69 ccc cca gg	r tac ad		aat aaa	aga agc		cca ctc	cqt 562
70 Pro Pro Gl							
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73 cga cag cc	a ccc cc		ccc aat		ggc cct	act tta	
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78 Met Pro Pr						-	
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98 Leu Gln Ar 99 101 ccc ttt c 102 Pro Phe P	g Pro Gly 230 ct ggt co ro Gly P:	y Gln Gly cg gac cc ro Asp Pr	Leu Pro 235 t ggc tt o Gly Ph 250	Ser Leu t cct ggo e Pro Gly	Pro Pro c cct gg y Pro Gly 25	Asn Thr 240 t ggt gag y Gly Glu 5	Ser g gat 946 a Asp
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98 Leu Gln Ar 99 101 ccc ttt c 102 Pro Phe P 103 2 105 ggg ggg a	g Pro Gly 230 ct ggt co ro Gly P: 45 ag ccc to	y Gln Gly cg gac cc ro Asp Pr cg aat cc	Leu Pro 235 t ggc tt o Gly Ph 250 a cct gc o Pro Al	Ser Leu t cct ggo e Pro Gly t tct act	Pro Pro c cct gg y Pro Gl 25 t gct tt	Asn Thr 240 t ggt gag y Gly Glu 5 t ccc cag	Ser g gat 946 a Asp g gag 994
98 Leu Gln Ar 99 101 ccc ttt c 102 Pro Phe P 103 2 105 ggg ggg a 106 Gly Gly L	g Pro Gly 230 ct ggt co ro Gly P: 45 ag ccc to ys Pro Lo	y Gln Gly cg gac cc ro Asp Pr cg aat cc eu Asn Pr 26	Leu Pro 235 t ggc tt o Gly Ph 250 a cct gc o Pro Al	Ser Leu t cct ggo e Pro Gly t tct act a Ser Thr	Pro Pro c cct gg y Pro Gl 25: c gct tt r Ala Pho 270	Asn Thr 240 t ggt gag y Gly Glu 5 t ccc cag e Pro Glr	Ser g gat 946 a Asp g gag 994 a Glu
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98 Leu Gln Ar 99 101 ccc ttt c 102 Pro Phe P 103 2 105 ggg ggg a 106 Gly Gly L 107 260 109 ccc cac t 110 Pro His S 111 275 114 ttc ccc c	g Pro Gly 230 ct ggt cc ro Gly P: 45 ag ccc tc ys Pro Lo ca ggc tc er Gly So	g Gln Gly gg gac cc ro Asp Pr gg aat cc eu Asn Pr 26 cc ccg gc er Pro Al 280 gc agt gg	Leu Pro 235 t ggc tt o Gly Ph 250 a cct gc o Pro Al 5 t gct gc a Ala Al	Ser Leu t cct ggc e Pro Gly t tct act a Ser Thr t gtt aat a Val Asr 285 t ggg ggc	Pro Pro c cct ggg y Pro Gly z5: t gct tt r Ala Pho 270 t ggg aac n Gly Asi c act ccc	Asn Thr 240 t ggt gag y Gly Glu 5 t ccc cag e Pro Glr c cag ccc n Gln Pro	g gat 946 Asp g gag 994 Glu agt 1042 Ser 290 aac 1090
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98 Leu Gln Ar 99 101 ccc ttt c 102 Pro Phe P 103 2 105 ggg ggg a 106 Gly Gly L 107 260 109 ccc cac t 110 Pro His S 111 275 114 ttc ccc c 115 Phe Pro P 116	g Pro Gly 230 ct ggt co ro Gly P: 45 ag ccc tr ys Pro Lo ca ggc to er Gly So cg aac ag ro Asn So	g Gln Gly g gac cc ro Asp Pr g aat cc eu Asn Pr 26 cc ccg gc er Pro Al 280 gc agt gg er Ser Gl	Leu Pro 235 t ggc tt o Gly Ph 250 a cct gc o Pro Al 5 t gct gc a Ala Al g cgg gg y Arg Gl	t cct ggd e Pro Gly t tct act a Ser Thr t gtt aat a Val Asr y Gly Gly 300	Pro Pro c cct gg y Pro Gl 25: t gct tt r Ala Pho 270 t ggg aac n Gly Asi c act ccc y Thr Pro	Asn Thr 240 t ggt gag y Gly Glu 5 t ccc cag e Pro Glr c cag ccc n Gln Pro a gat gcc o Asp Ala 305	gat 946 Asp gag 994 Glu agt 1042 Ser 290 aac 1090 Asn
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Input Set : A:\PTO.AMC.txt

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167	tggccctcgg agaagttagg agtcccccag ctcaagatac agtggcaaag acctagtggt	2753
168	cccctacccc cacttetete agtteetgge atgaggagag aagaccetge tetggtggag	2813
169	ctgacaacct ttgaggctgg gaggagagca gcctctgggc atcgttccca gtgtccctca	2873
	cactaaaacg gcgtagatgg caacccccca cccccacccc gctgctcaac tcttgtgttt	2933
	gttgttctgt ttgccccatt tatctgttgc tgtttttgtg ttgtcttccc ctgctccgca	2993
	ttttgtaaaa tggcccctgg gggagtgttt ttgctggatc tgctccctct cgctctctca	3053
	ctccactact ttttggacaa agtgatggca gaatgcggtg gtggtggggg tcttttgtac	3113
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	<211> LENGTH: 406	
	<212> TYPE: PRT	
	<213> ORGANISM: homosapiens	
	<220> FEATURE:	
	<223> OTHER INFORMATION: hPygo-2	
186	<400> SEQUENCE: 2	

Input Set : A:\PTO.AMC.txt

188 189		Ala	Ala	Ser	Ala 5	Pro	Pro	Pro	Pro	Asp 10	Lys	Leu	Glu	Gly	Gly 15	Gly
		_		_	_			D	D		mb	<b>a</b> 1	7	T		C1
192	_			20		Pro			25					30		
194 195	Lys	Ala	Gly 35	Leu	Gln	Met	Lys	Ser 40	Pro	Glu	Lys	Lys	Arg 45	Arg	Lys	Ser
197	Asn			Gly	Pro	Ala	Tyr 55	Ser	His	Leu	Thr	Glu 60	Phe	Ala	Pro	Pro
198	_	50	_			_		_					D	Dla a	<b>a</b> 1	7
201	65					Asp 70					75					80
203 204	Asp	Phe	Gly	Ala	Pro 85	Lys	Val	Gly	Val	Ala 90	Ala	Pro	Pro	Phe	Leu 95	Gly
	Ser	Pro	Val	Pro 100	Phe	Gly	Gly	Phe	Arg	Val	Gln	Gly	Gly	Met 110	Ala	Gly
207			_		~3	_	_	em1		<b>61</b>	<b>61</b>	<b>~</b> 1	<b>a</b> 1		<b>~</b> 1 ~	D
210			115		_	Tyr		120					125			
212	Leu	Arg	Arg	Gln	Pro	Pro	Pro	Phe	Pro	Pro	Asn	Pro	Met	Gly	Pro	Ala
213		130					135					140		-		
215	Phe	Asn	Met	Pro	Pro	Gln	Gly	Pro	Gly	Tyr	Pro	Pro	Pro	Gly	Asn	Met
	145					150	-		•	•	155			-		160
		Dhe	Pro	Ser	Gln	Pro	Phe	Asn	Gln	Pro		Glv	Gln	Asn	Phe	Ser
219	L'DII	1110	110	DCI	165	110	1110		0111	170		1			175	
	Dro	Dro	Cor	C1		Met	Mot	Dro	Clv		17 a 1	Gly	Glv	Dhe		Pro ·
222				180					185					190		
224	Met	Ile	Ser	Pro	Thr	Met	Gly		Pro	Pro	Arg	Ala		Leu	GIY	Pro
225			195					200					205			•
228	Pro	Ser	Leu	Ser	Gln	Arg	Phe	Ala	Gln	Pro	Gly	Ala	Pro	Phe	Gly	Pro
229		210					215					220				
231	Ser	Pro	Leu	Gln	Arg	Pro	Gly	Gln	Gly	Leu	Pro	Ser	Leu	Pro	Pro	Asn
232	225					230					235					240
234	Thr	Ser	Pro	Phe	Pro	Gly	Pro	Asp	Pro	Gly	Phe	Pro	Gly	Pro	Gly	Gly
235					245	_				250					255	
237	Glu	Asp	Gly	Gly	Lys	Pro	Leu	Asn	Pro	Pro	Ala	Ser	Thr	Ala	Phe	Pro
238		•	•	260	•				265					270		
	Gln	Glu	Pro	His	Ser	Gly	Ser	Pro	Ala	Ala	Ala	Val	Asn	Gly	Asn	Gln
241			275			•		280					285	_		
	Pro	Ser		Pro	Pro	Asn	Ser		Glv	Ara	Glv	Glv	Glv	Thr	Pro	Asp
244		290					295		1	5	2	300	- 4			-
	בות		Sar	T.011	Δla	Pro		Glv	Lvs	Δla	Glv		Glv	Ser	Glv	Pro
		ASII	DCI	пец	AIu	310	110	011	Dy D	1110	315	017	Q-1	-00	0-1	320
	305	Dro	Dro	Dro	C1	Leu	17-1	Тъ със	Dro	Cvc		λlo	Cvc	Δνα	Ser	
	GIII	PLO	PIO	PIO		ьец	vai	ıyı	PIO		GIY	AIG	Cys	Arg	335	Giu
250		_			325	3	77-	~7 -	T	330	~1	77-	Com	Crea		Tvc
	vai	ASN	Asp		GIN	Asp	Ala	тте		cys	GIU	AIG	ser		GIII	пур
253		_•	•	340		_		~-	345	_,	~ 7	~		350	<b>a</b> 3 -	T
	$\mathtt{Trp}$	Phe		Arg	Glu	Cys	Thr		Met	Thr	Glu	ser		Tyr	GIÀ	Leu
256			355					360					365	_		_
258	Leu	Thr	Thr	Glu	Ala	Ser	Ala	Val	Trp	Ala	Cys		Leu	Cys	Leu	Lys
259		370					375					380				
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Input Set : A:\PTO.AMC.txt

	385				•	390					395					400	
	Val	АТа	Ата	Asn	_	GIY											
265	<210	1. 01	- TI	OM C	405												
	<21																
	<212				200												
	<213				home	ngan:	iens										
	<220				1101110	Juap.	LCIID				•						
	<22				CDS												
	<22					(12	260)										
	<220																
278	<22	3 > 0	THER	INF	ORMAT	TION	: hP	ygo-I	L								
	<40						•										
281	atg	ccc	gcc	gag	aac	tct	cca	gct	CCC	gct	tac	aaa	gtt	tcc	tcg	cat	48
282	Met	Pro	Ala	Glu	Asn	Ser	Pro	Ala	Pro	Ala	Tyr	Lys	Val	Ser	Ser	His	
283	1				5					10					15		
			_	-		_	_							gta			96
286	Gly	Gly	Asp	Ser	Gly	Leu	Asp	Gly	Leu	Gly	Gly	Pro	Gly	Val	Gln	Leu	
287				20					25					30			
														gga			144
	Gly	Ser		Asp	Lys	Lys	Lys	_	Lys	Ala	Asn	Thr		Gly	Pro	Ser	
291			35					40					45				
														aac			192
	Pne		Pro	Leu	ser	GIU		Ala	Pro	Pro	Pro		Pro	Asn	Ser	Asp	
295	ast	50	ata	aat	aat	2.2.t	55	+++	ast.	~~~	224	60	2.2.t	aat	2++	taa	240
			_	_	-				_	_				act Thr			240
299		цец	vai	ліа	ліа	70	rio	FIIC	ьэр	ьэр	75	ıyı	POII	1111		80	
		aaa	cca	cta	cct		t.ca	aat	cca	tat		aac	cct	ggt			288
						_								Gly			200
303	-	-4			85					90				- 2	95		
305	ggc	ttt	qqa	ggc	tat	agt	aca	ttc	aqa	atg	cca	cct	cac	gtt	ccc	cca	336
														Val			
307				100					105					110			
309	aga	atg	tct	tcc	cca	tac	tgt	ggt	cct	tac	tca	ctc	agg	aac	cag	cca	384
310	Arg	Met	Ser	Ser	Pro	Tyr	Cys	Gly	Pro	Tyr	Ser	Leu	Arg	Asn	Gln	Pro	
311			115					120					125				
					_			_		_				cga			432
			Phe	Pro	Gln			Leu	Gly	Met	Gly			Arg	Pro	His	
315		130					135					140					400
														aat			480
		Pne	Asn	Pne	GIY		His	Asp	Asn	ser		Pne	GIY	Asn	Pro		
	145	22+	22+	ac =	ct =	150	<b>a</b>	a a +	ata	220	155	cct	aat	C22	cet	160	528
						_	_		_		_			caa Gln			526
323	TAT	UOII	TOIL	nia	165	Set	GIII	WOII	vaı	170	rie C	110	Non	GIII	175	FIIE	
	aga	caa	aat	cct		gaa	aat	ttc	agt		att	cct	cca	cag	_	act	576
														Gln			3.3
327	3			180					185	~				190			
′																	

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\11012005\J553661.raw

## Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28

VERIFICATION SUMMARY

DATE: 11/01/2005

PATENT APPLICATION: US/10/553,661

TIME: 11:57:19

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\11012005\J553661.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date